

## ABSTRACT

A first high speed transmission line board (1) having a stripline structure is composed of a first elastomer sheet (1A) that has a fixed dielectric constant, plural first elastomer strips (1B) that are conductive, arrayed at two edges of the first elastomer sheet (1A), and plural first high speed transmission lines (1C) formed in a pattern connecting two ends of the first elastomer strips (1B). A first surface layer board (2) is composed of a second elastomer sheet (2A) that is nonconductive, and plural second elastomer strips (2B) that are conductive, arrayed similarly to the first elastomer strips (1B), at two edges of the second elastomer sheet (2A). A multilayer board is configured by laminating the first surface layer board (2) on the first high speed transmission line board (1), and external connecting terminals are in pressurized contact with the plural second elastomer strips (2B), so that the plural first high speed transmission lines (1C) are connected.